

Appl. No. 09/935,355

Amdt. dated October 6, 2004

Reply to Office action of June 8, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended). A method for revising a computer program, which comprises:

providing a computer program written in a programming language in a computer;

prescribing consistency, syntax, grammar, and lexical rules;

searching the computer program initially for infringements of the prescribed consistency, syntax, grammar rules, and lexical rules;

for an infringement of a prescribed rule, calculating a ~~possible correction~~ plurality of feasible corrections in the computer program; and

changing the computer program in accordance with ~~the calculated correction~~ a selected one of the feasible corrections.

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Claim 2 (canceled).

Claim 3 (currently amended). The method according to claim 2 1, which further comprises, for an infringement of a prescribed rule, automatically selecting a correction option from the plurality of correction options.

Claim 4 (currently amended). The method according to claim 2 1, which further comprises, for an infringement of a prescribed rule, interactively selecting a correction option from the plurality of correction options.

Claim 5 (original). The method according to claim 1, which further comprises:

searching the computer program for infringements of prescribed rules as it is gradually input; and

graphically identifying the infringements before the end of input.

Claim 6 (original). The method according to claim 1, which further comprises:

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searching the computer program for infringements of prescribed rules actually as the computer program is gradually input; and

automatically correcting a prescribed type of infringement before the inputting has been completed.

Claim 7 (currently amended). A computer program product, comprising:

a computer program for loading directly into an internal memory of a computer, said computer program including computer program code sections for

prescribing consistency, syntax, grammar, and lexical rules;

searching the computer program initially for infringements of the prescribed consistency, syntax, grammar rules, and lexical rules;

for an infringement of a prescribed rule, calculating a possible-correction plurality of feasible corrections in the computer program; and

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changing the computer program in accordance with the
~~calculated correction~~ a selected one of the feasible
corrections.

Claim 8 (currently amended). A computer program product
stored on a medium suitable for computers, the computer
program product comprising:

computer-readable program devices permitting a computer to
execute a method including the steps:

prescribing consistency, syntax, grammar, and lexical
rules;

searching the computer program initially for
infringements of the prescribed consistency, syntax,
grammar rules, and lexical rules;

for an infringement of a prescribed rule, calculating a
~~possible correction~~ plurality of feasible corrections in
the computer program; and

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changing the computer program in accordance with ~~the~~
~~calculated correction~~ a selected one of the feasible
corrections.

Claim 9 (currently amended). A programmed data medium,
comprising:

a data medium; and

a computer program permitting a computer to execute a method
including:

prescribing consistency, syntax, grammar, and lexical
rules;

searching the computer program initially for
infringements of the prescribed consistency, syntax,
grammar rules, and lexical rules;

for an infringement of a prescribed rule, calculating a
~~possible correction~~ plurality of feasible corrections in
the computer program; and

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changing the computer program in accordance with the
~~calculated correction~~ a selected one of the feasible
corrections.

Claim 10 (currently amended). A computer system, comprising:

a computer; and

means for executing a method on said computer, the method
including:

prescribing consistency, syntax, grammar, and lexical
rules;

searching the computer program initially for
infringements of the prescribed consistency, syntax,
grammar rules, and lexical rules;

for an infringement of a prescribed rule, calculating a
~~possible correction~~ plurality of feasible corrections in
the computer program; and

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changing the computer program in accordance with the
~~calculated correction~~ a selected one of the feasible
corrections.

Claim 11 (currently amended). A computer system for revising
a computer program written in a programming language, the
computer system comprising:

a memory device storing a computer program in a storage
medium;

a processing unit reading the computer program from the memory
device and analyzing the computer program;

said processing unit searching the computer program initially
for infringements of prescribed consistency, syntax, grammar,
and lexical rules;

for an infringement of a prescribed rule, said processing unit
calculating a ~~possible correction~~ plurality of feasible
corrections in the computer program;

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said processing unit changing the computer program in
accordance with ~~the calculated correction~~ a selected one of
the feasible corrections;

said processing unit then revising the computer program to
said memory device; and

an output device reading the revised computer program from
said memory device and outputting the revised computer
program.

Claim 12 (currently amended). The computer system according
to claim 11, wherein, for an infringement of a prescribed
rule, said processing unit calculates a plurality of ~~possible~~
feasible corrections of the rule infringement in the computer
program.

Claim 13 (original). The computer system according to claim
12, wherein, for an infringement of a prescribed rule, said
processing unit automatically selects a correction option from
the plurality of correction options.

Claim 14 (original). The computer system according to claim
12, wherein, for an infringement of a prescribed rule, said

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processing unit interactively selects a correction option from the plurality of correction options.

Claim 15 (original). The computer system according to claim 11, wherein said processing unit searches the computer program for infringements of prescribed rules actually as the computer program is gradually input, and said output device identifies graphically the infringements before the computer program is completely input.

Claim 16 (original). The computer system according to claim 11, wherein said processing unit searches the computer program for infringements of prescribed rules as the computer program is gradually input, and automatically corrects a prescribed type of infringement before the computer program is completely input.

Claim 17 (currently amended). A method for revising a computer program written in a programming language, which comprises:

providing a computer;

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analyzing, with the computer, a computer program for
infringements of prescribed consistency, syntax, grammar, and
lexical rules; and

~~defining~~ user-defining ignored infringements from the
prescribed infringements, the user-defined ignored
infringements being automatically ignored.

Claim 18 (original). The method according to claim 17, which
further comprises defining the ignored infringements by virtue
of a categorical specification of the infringement.

Claim 19 (original). The method according to claim 17, which
further comprises defining the ignored infringements by virtue
of a generalized specification of the infringement.

Claim 20 (original). The method according to claim 17, which
further comprises defining the ignored infringements by virtue
of a hierarchical specification of the infringement.

Claim 21 (original). The method according to claim 17, which
further comprises defining the ignored infringements by
indicating a declaration environment of the infringement.

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Claim 22 (original). The method according to claim 17, wherein ignored infringements are defined by specifying an area or context of a construct.

Claim 23 (original). The method according to claim 17, wherein ignored infringements are defined by specifying regions of the source code of the computer program, the regions being defined by indicating:

lines and columns;

starting lines and ending lines and starting columns and ending columns;

nodes in a parsing/syntax tree;

starting nodes and ending nodes in the parsing/syntax tree; and

a path in the parsing/syntax tree.

Claim 24 (original). The method according to claim 17, which further comprises defining the ignored infringements by indicating a class of constructs.

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Claim 25 (original). The method according to claim 17, which further comprises defining the ignored infringements by indicating a class of nodes.

Claim 26 (original). The method according to claim 25, which further comprises defining ignored infringements by indicating a class of nodes with subnodes.

Claim 27 (currently amended). A computer program for loading directly into an internal memory of a computer, the computer program comprising computer program code sections analyzing a further computer program for infringements of prescribed consistency, syntax, grammar, and lexical rules, and ~~defining~~ user-defining ignored infringements from the prescribed infringements, the user-defined ignored infringements being automatically ignored by the computer program codes sections.

Claim 28 (currently amended). A computer program product stored on a medium suitable for computers, the computer program product comprising computer-readable programming means for analyzing a further computer program for infringements of prescribed consistency, syntax, grammar, and lexical rules, and ~~defining~~ user-defining ignored infringements from the

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prescribed infringements, the user-defined ignored
infringements being automatically ignored.

Claim 29 (currently amended). A programmed data medium,
comprising:

a data medium storing a computer program for analyzing a
computer program for infringements of prescribed consistency,
syntax, grammar, and lexical rules, and ~~defining~~ user-defining
ignored infringements from the prescribed infringements, the
user-defined ignored infringements being automatically
ignored.

Claim 30 (currently amended). A computer system, comprising a
computer analyzing a computer program for infringements of
prescribed consistency, syntax, grammar, and lexical rules,
and ~~defining~~ user-defining ignored infringements from the
prescribed infringements, the user-defined ignored
infringements being automatically ignored.

Claim 31 (currently amended). A computer system for revising
a computer program written in a programming language,
comprising:

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a memory device for storing a computer program on a storage medium;

a processing unit reading the computer program from said memory device and the computer program, said processing unit searching the computer program initially for infringements of prescribed consistency, syntax, grammar, and lexical rules; and

means for ~~defining~~ user-defining infringements, the user-defined infringements being automatically ignored during analysis.

Claim 32 (original). The computer system according to claim 30, wherein said means for defining infringements define infringements based on categorical specification of the infringement.

Claim 33 (original). The computer system according to claim 30, wherein said means for defining infringements define infringements based on generalized specification of the infringement.

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Claim 34 (original). The computer system according to claim 31, wherein said means for defining infringements define infringements based on hierarchical specification of the infringement.

Claim 35 (original). The computer system according to claim 31, wherein said means for defining infringements to be ignored define infringements by indicating of a declaration environment of the infringement.

Claim 36 (original). The computer system according to claim 31, wherein said means for defining infringements to be ignored define infringements specifying an area or context of a construct.

Claim 37 (original). The computer system according to claim 31, wherein said means for defining infringements to be ignored define infringements by specifying regions of the source code of the computer program, the regions being defined by indicating:

lines and columns;

starting lines and ending lines and starting columns and ending columns;

nodes in a parsing/syntax tree;

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starting nodes and ending nodes in the parsing/syntax
tree; and
a path in the parsing/syntax tree.

Claim 38 (original). The computer system according to claim
31, including means for defining infringements to be ignored
by indicating a class of constructs.

Claim 39 (original). The computer system according to claim
31, including means for defining infringements to be ignored
by indicating a class of nodes.

Claim 40 (original). The computer system as claimed in claim
39, wherein said class of nodes has subnodes.